

**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR § 1.53(b))

Attorney Docket No.		1875.2200001
First Inventor		Sam Ziqun Zhao
Title	Thermally and Electrically Enhanced Ball Grid Array Packaging	
Express Mail Label No		

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

**ADDRESS TO:**Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 202311. ☐ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original, and a duplicate for fee processing)2. ☐ Applicant claims small entity status.  
See 37 CFR 1.27.3. ☒ Specification [Total Pages 20]  
(preferred arrangement set forth below)

- Descriptive title of the Invention
- Cross Reference to Related Applications
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 18]5. ☐ Oath or Declaration [Total Pages \_\_\_\_\_]a. ☐ Newly executed (original or copy)b. ☐ Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 18 completed)i. ☐ **DELETION OF INVENTOR(S)**Signed statement attached deleting inventor(s)  
named in the prior application, see 37 CFR §§  
1.63(d)(2) and 1.33(b).6. ☒ Application Data Sheet. See 37 CFR 1.76.7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program  
(Appendix)8. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)a. ☐ Computer Readable Form (CRF)

b. Specification Sequence Listing on:

i. ☐ CD-ROM or CD-R (2 copies); orii. ☐ paperc. ☐ Statements verifying identity of above copies**ACCOMPANYING APPLICATION PARTS**9. ☐ Assignment Papers (cover sheet & document(s))10. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney  
(when there is an assignee)11. ☐ English Translation Document (if applicable)12. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS  
Citations13. ☐ Preliminary Amendment14. ☒ Two Return Receipt Postcards (MPEP 503)  
(Should be specifically itemized)15. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)16. ☐ Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach  
form PTO/SB/35 or its equivalent.17. ☒ Other: Authorization under 37 C.F.R. § 1.136(a)(3)☐ Other: The name of the assignee is: \_\_\_\_\_18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment,  
or in an Application Data Sheet under 37 CFR 1.76:☐ Continuation☐ Divisional☐ Continuation-in-Part (CIP)

of prior application No: \_\_\_\_\_/\_\_\_\_\_

Prior application information: Examiner \_\_\_\_\_

Group/Art Unit: \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is  
considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only  
relied upon when a portion has been inadvertently omitted from the submitted application parts.**19. CORRESPONDENCE ADDRESS**☒ Customer Number or Bar Code Label

Customer No. 26111

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PATENT TRADEMARK OFFICE

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or ☐ Correspondence address below

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SIGNATURE		Date	11-30-01

Burden Hour Statement: this form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount  
of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND  
FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

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\*LIMITED TO MATTERS  
AND PROCEEDINGS BEFORE  
FEDERAL COURTS & AGENCIES  
\*\*REGISTERED PATENT AGENT  
\*\*\*SENIOR COUNSEL

November 30, 2001

WRITER'S DIRECT NUMBER:

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Commissioner for Patents  
Washington, D.C. 20231

**Box Patent Application**

Re: U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)  
Appl. No: To be assigned; Filed: November 30, 2001  
For: **Thermally and Electrically Enhanced Ball Grid Array Packaging**  
Inventors: Zhao et al.  
Our Ref: 1875.2200001

Sir:

The following documents are forwarded herewith for appropriate action by the U.S.  
Patent and Trademark Office:

1. USPTO Utility Patent Application Transmittal Form PTO/SB/05;
2. U.S. Utility Patent Application entitled:

**Thermally and Electrically Enhanced Ball Grid Array Packaging**

and naming as inventors:

**Sam Ziqun Zhao**  
**Reza-ur Rahman Khan**  
**Edward Law**  
**Marc Papageorge**

Commissioner for Patents  
November 30, 2001  
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the application comprising:

- a. specification containing:
    - i. 17 pages of description prior to the claims;
    - ii. 2 pages of claims (13 claims);
    - iii. a one (1) page abstract;
  - b. 18 sheets of drawings (Figures 1-18); and
  - c. an Application Data Sheet (37 C.F.R. § 1.76).
3. 37 C.F.R. § 1.136(a)(3) Authorization to Treat a Reply As Incorporating An Extension of Time (in duplicate); and
  4. Two (2) return postcards.

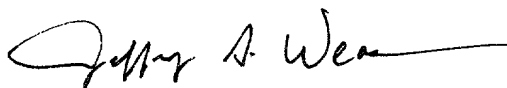
Correspondence should be sent to Customer Number 26111.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible.

This patent application is being submitted under 37 C.F.R. § 1.53(b) without Declaration and without filing fee.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Jeffrey S. Weaver  
Attorney for Applicants  
Registration No. 45,608

JSW/asl  
Enclosures